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Notice of Allowability

Application No.

09/692,371

Examiner

Jared J. Fureman

Applicant(s)

KRUL ET AL.

Art Unit

2876

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the telephone interview on 6/29/2004.
2. ☒ The allowed claim(s) is/are 16,39-47 and 60.
3. ☒ The drawings filed on 20 October 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>070204</u> |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Jared J. Fureman
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Examiner
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DETAILED ACTION

Receipt is acknowledged of the amendment, filed on 6/16/2004, which has been entered in the file. Claims 16, 39-47 and 60 are pending.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Stefan U. Koschmieder (50,238) on 6/29/2004. The examiner's amendment was necessary in order to remove any claim objections or rejections under 35 U.S.C. 112 2nd paragraph, and to further clarify the claims.

The application has been amended as follows:

In the claims:

Claims 1-15 (Canceled).

Claim 16 (Previously Presented): A security thread comprising an insulating support bearing a flexible integrated circuit comprising a semiconductive organic polymer, provided with electrical contacts for the integrated circuit.

Claims 17-38 (Canceled).

Claim 39 (Currently Amended): The security thread ~~The substrate~~ according to claim 16, wherein the organic polymer is selected from conjugated polymers.

Claim 40 (Currently Amended): The security thread ~~The substrate~~ according to claim 16, wherein the organic polymer is at least one of selected from oligomeric pentacene, poly(thienylene vinylene) or poly-3 alkylthiophene.

Claim 41 (Currently Amended): The security thread ~~The substrate~~ according to Claim 16, wherein the integrated circuit is a contactlessly readable integrated circuit which can be read in an inductive or capacitive manner.

Claim 42 (Currently Amended): A substrate comprising the security thread ~~The substrate~~ according to Claim 16, wherein the integrated circuit forms part of an optical active element.

Claim 43 (Currently Amended): A substrate comprising the security thread ~~The substrate~~ according to claim 16, wherein the integrated circuit comprises a preprogrammed code which is applied before incorporating the circuit in the substrate.

Claim 44 (Currently Amended): A substrate comprising the security thread according to claim 16, wherein the integrated circuit comprises a code of an intrinsic

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property of the substrate, which code, after the substrate has been produced, is arranged in the integrated circuit.

Claim 45 (Previously Presented): The substrate according to claim 43, wherein the code is an encrypted code.

Claim 46 (Currently Amended): A substrate comprising the security thread ~~The substrate~~ according to claim 16, wherein the substrate comprises additional security features.

Claim 47 (Currently Amended): The substrate according to claim 46, wherein an additional security feature is ~~selected from~~ at least one of a dye, fluorescent material, luminescent material or phosphorescent material.

Claims 48-59 (Canceled).

Claim 60 (Currently Amended): The security thread ~~The substrate~~ according to Claim 16, which further comprises an insulating layer on said semiconductive organic polymer.

Claim 61 (Canceled).

Allowable Subject Matter

2. Claims 16, 39-47 and 60 have been allowed over the prior art of record. The reasons for allowance were set forth in the office action mailed on 3/17/2004.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jared J. Fureman whose telephone number is (571) 272-2391. The examiner can normally be reached on 7:00 am - 4:30 PM M-T, and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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July 2, 2004